

ENGLISH

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SPRAYBOND XF CANISTER

SAFETY DATA SHEET

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form Mixture Trade name : Pandser Spraybond XF Canister Vaporizer : Container fitted with a sealed spray attachment 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Professional use Use of the substance/mixture : adhesives 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Supplier Berdal Rubber & Plastics B.V. Bedrijvenpark Twente 193 7602 KG Almelo Nederland Tel: +31 (0)546 572672 Fax: +31 (0)546 575635 E-Mail: verkoop@berdal.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable gases, Category 1A	H220
Gases under pressure : Liquefied gas	H280
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Hazardous to the aquatic environment – Chronic Hazard,	H412
Category 3	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Contains gas under pressure; may explode if heated. Extremely flammable gas. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





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Signal word (CLP)	: Danger
Contains	: acetone; naphtha (petroleum), hydrotreated light; n-pentane
Hazard statements (CLP)	: H220 - Extremely flammable gas.
	H280 - Contains gas under pressure; may explode if heated.
	H336 - May cause drowsiness or dizziness.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand.
	P102 - Keep out of reach of children.
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	P211 - Do not spray on an open flame or other ignition source.
	P261 - Avoid breathing vapours, spray, mist.
	P312 - Call a POISON CENTRE or doctor if you feel unwell.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
dimethyl ether (115-10-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
acetone (67-64-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
n-hexane (110-54-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
pentane (109-66-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8	≥ 50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
naphtha (petroleum), hydrotreated light (Note P)	CAS-No.: 64742-49-0 EC-No.: 265-151-9 EC Index-No.: 649-328-00-1	≥ 5 – < 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
pentane substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 109-66-0 EC-No.: 203-692-4 EC Index-No.: 601-006-00-1	≥ 5 – < 10	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066
acetone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330- 49	≥1-<5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
n-hexane substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0	< 1	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
n-hexane	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0	(5 ≤ C < 100) STOT RE 2, H373

Note P: Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects: May cause drowsiness or dizziness.Symptoms/effects after skin contact: Repeated exposure may cause skin dryness or cracking.	
4.3. Indication of any immediate medi	cal attention and special treatment needed

Treat symptomatically.



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SECTION 5: Firefighting measures	$\langle X X X X X X X X X X X X X X X X X X X$
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the subs	tance or mixture
Fire hazard Hazardous decomposition products in case of fire	Extremely flammable gas.Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions	: Eliminate all ignition sources if safe to do so. Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipn	6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment a	nd cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	 Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Eliminate all ignition sources if safe to do so. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. 	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, inc	luding any incompatibilities	
Storage conditions	: Protect from sunlight. Store in a well-ventilated place. Store locked up. Keep container tightly closed. Keep cool.	
7.3. Specific end use(s)		
No additional information available		



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

dimethyl ether (115-10-6)			
EU - Indicative Occupational Exposure Limit (IOEI	_)		
Local name	Dimethylether		
IOEL TWA	1920 mg/m ³ 1920 mg/m ³		
	1000 ppm 1000 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC COMMISSION DIRECTIVE 2000/39/EC		
United Kingdom - Occupational Exposure Limits			
Local name	Dimethyl ether		
WEL TWA (OEL TWA)	766 mg/m ³		
	400 ppm		
WEL STEL (OEL STEL)	958 mg/m ³		
500 ppm			
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
acetone (67-64-1)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Acetone		
IOEL TWA	1210 mg/m ³		
	500 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC		
United Kingdom - Occupational Exposure Limits			
Local name	Acetone		
WEL TWA (OEL TWA)	1210 mg/m ³		
	500 ppm		
NEL STEL (OEL STEL) 3620 mg/m³			
	1500 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
n-hexane (110-54-3)			
EU - Indicative Occupational Exposure Limit (IOEI	_)		
Local name	n-Hexane		
IOEL TWA	72 mg/m ³		
	20 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC		
United Kingdom - Occupational Exposure Limits			
Local name	n-Hexane		



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n-hexane (110-54-3)		
WEL TWA (OEL TWA)	72 mg/m³	
	20 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
pentane (109-66-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	3000 mg/m ³	
	1000 ppm	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	1800 mg/m³	
	600 ppm	

8.1.2. Recommended monitoring procedures

- No additional information available
- 8.1.3. Air contaminants formed
- No additional information available
- 8.1.4. DNEL and PNEC
- No additional information available
- 8.1.5. Control banding
- No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses (EN 166)

8.2.2.2. Skin protection

Skin and body protection: Protective clothing (EN 14605 or EN 13034)

Hand protection:

Chemical resistant PVC gloves (to European standard ISO 374-1 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection: Filter AX (brown)

8.2.2.4. Thermal hazards

No additional information available



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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Dhusiaal state	. Linuid
Physical state	: Liquid
Colour	: Transparent.
Appearance	: Aerosol.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 44 – 62 °C
Flammability	: Extremely flammable gas.
Lower explosion limit	: 1 vol %
Upper explosion limit	: 13 vol %
Flash point	: -43 °C
Auto-ignition temperature	: 392 °C
Decomposition temperature	: Not available
рН	: 7
Viscosity, kinematic	: > 20.5 mm²/s (40°C)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.77 g/cm³ (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics		
VOC content	:	446

SECTION 10: Stability and reactivity

Extremely flammable gas. 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions
Stable under normal conditions. 10.3. Possibility of hazardous reactions
10.3. Possibility of hazardous reactions
-
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

g/l

10.5. Incompatible materials

No additional information available



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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	ation
11.1. Information on hazard classes as	defined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
dimethyl ether (115-10-6)	
LC50 Inhalation - Rat [ppm]	164000 ppm (4 h, Rat, Male, Experimental value, Inhalation (gases), 14 day(s))
acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	5800 mg/kg bodyweight
LD50 dermal rabbit	> 15800 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LD50 dermal	> 15688 mg/kg bodyweight
LC50 Inhalation - Rat	132 mg/l (3 h, Rat, Male, Experimental value, Inhalation (vapours))
LC50 Inhalation - Rat (Dust/Mist)	50100 mg/l
n-hexane (110-54-3)	
LD50 oral rat	16000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 3350 mg/kg bodyweight (Equivalent or similar to OECD 402, 4 h, Rabbit, Male, Read- across, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 17.6 mg/l air (Equivalent or similar to OECD 403, 24 h, Rat, Male, Experimental value, Inhalation (vapours))
pentane (109-66-0)	
LD50 oral rat	> 2000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 20 mg/l air (4 h, Rat, Male / female, Experimental value, Inhalation (vapours))
Skin corrosion/irritation	: Not classified pH: 7
dimethyl ether (115-10-6)	
рН	Not applicable (gas)
acetone (67-64-1)	
рН	5 – 6 (20 °C)
n-hexane (110-54-3)	
рН	7 (< 0.01 %, 25 °C)
pentane (109-66-0)	
рН	No data available in the literature
Serious eye damage/irritation	: Not classified pH: 7



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dimethyl ether (115-10-6)	
рН	Not applicable (gas)
acetone (67-64-1)	
рН	5 – 6 (20 °C)
n-hexane (110-54-3)	
рН	7 (< 0.01 %, 25 °C)
pentane (109-66-0)	
рН	No data available in the literature
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	May cause drowsiness or dizziness.
acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
n-hexane (110-54-3)	
STOT-single exposure	May cause drowsiness or dizziness.
naphtha (petroleum), hydrotreated light (6474	2-49-0)
STOT-single exposure	May cause drowsiness or dizziness.
pentane (109-66-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure :	Not classified
n-hexane (110-54-3)	
STOT-repeated exposure	May cause damage to organs (nervous system) through prolonged or repeated exposure (if inhaled).
Aspiration hazard :	Not classified
Pandser Spraybond XF Canister	
Vaporizer	Container fitted with a sealed spray attachment
Viscosity, kinematic	> 20.5 mm²/s (40°C)
dimethyl ether (115-10-6)	
Viscosity, kinematic	Not applicable (gas)
acetone (67-64-1)	
Viscosity, kinematic	No data available in the literature
n-hexane (110-54-3)	
Viscosity, kinematic	No data available in the literature
pentane (109-66-0)	
Viscosity, kinematic	0.2 – 0.52 mm²/s (20 °C, ASTM D7042: Dynamic viscosity and density of liquids)
11.2. Information on other hazards	

No additional information available



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SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects.Not classified
: Harmful to aquatic life with long lasting effects.
> 4100 mg/l (NEN 6504: Water - Determination of toxicity with Poecilia reticulata, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, Lethal)
> 4400 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)
154.9 mg/l (ECOSAR v1.00, Algae, QSAR, Estimated value)
6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Measured concentration)
12600 mg/l waterflea
3400 mg/l
4.26 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)
2.7 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value)
10.7 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)

dimethyl ether (115-10-6)		
Persistence and degradability Non degradable in the soil. Not readily biodegradable in water.		
acetone (67-64-1)		
Persistence and degradability	The product is miscible in water and readily biodegradable in both water and soil.	
Biodegradation	90 % (OECD 301 B (Ready Biodegradability: CO2 Evolution Test), 28d)	
n-hexane (110-54-3)		
Persistence and degradability	Readily biodegradable.	
ThOD	3.52 g O ₂ /g substance	
pentane (109-66-0)		
Persistence and degradability	Readily biodegradable in water.	
12.3. Bioaccumulative potential		
dimethyl ether (115-10-6)		
Partition coefficient n-octanol/water (Log Pow)	0.07	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	



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acetone (67-64-1)	
BCF - Fish [1]	0.69 (Pisces, Literature study)
Partition coefficient n-octanol/water (Log Pow)	-0.23 (Test data)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
n-hexane (110-54-3)	
BCF - Fish [1]	501.187 (Pimephales promelas, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	4 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Potentially bioaccumulable.
pentane (109-66-0)	
Partition coefficient n-octanol/water (Log Pow)	3.45 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
dimethyl ether (115-10-6)	
Surface tension	No data available in the literature
Ecology - soil	Not applicable (gas).
acetone (67-64-1)	
Surface tension	23.3 mN/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
n-hexane (110-54-3)	
Surface tension	17.89 mN/m (25 °C, 1 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.34 (log Koc, QSAR)
Ecology - soil	Low potential for mobility in soil.
pentane (109-66-0)	
Surface tension	15.49 mN/m (25 °C, 100 %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.9 (log Koc, QSAR)
Ecology - soil	Low potential for adsorption in soil.
12.5 Results of PRT and vPvR assessment	

12.5. Results of PBT and vPvB assessment

Component	
dimethyl ether (115-10-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
acetone (67-64-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
n-hexane (110-54-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
pentane (109-66-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII



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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID /

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			1
UN 3501	UN 3501	UN 3501	UN 3501	UN 3501
14.2. UN proper shippin	g name		-	1
CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether)	Chemical under pressure, flammable, n.o.s. (dimethyl ether)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether)	CHEMICAL UNDER PRESSURE, FLAMMABLE N.O.S. (dimethyl ether)
Transport document descr	iption			
UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether), 2.1, (B/D)	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether), 2.1 (-43°C c.c.)	UN 3501 Chemical under pressure, flammable, n.o.s. (dimethyl ether), 2.1	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether), 2.1	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (dimethyl ether), 2.1
14.3. Transport hazard o	class(es)			
2.1	2.1	2.1	2.1	2.1
2	2	2	2	2
14.4. Packing group			I	I
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards	1	1	1
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary informatio	n available			
14.6. Special precaution	s for user			
Dverland transport Classification code (ADR) Special provisions (ADR) imited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR)	: 8F : 274 : 0 : E0 : P2(4, 659		

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Special packing provisions (ADR)	: PP89
Mixed packing provisions (ADR)	: MP9
Portable tank and bulk container instructions (ADR)	
Portable tank and bulk container special provisions	: TP4, TP40
(ADR)	
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	:
Special provisions for carriage - Bulk (ADR)	:
Special provisions for carriage - Loading, unloading	: CV9, CV10, CV12, CV36
and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 23
Orange plates	
	23 3501
Tunnel restriction code (ADR)	: B/D
EAC code	: 2YE
Transport by sea	
Special provisions (IMDG)	: 274, 362
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P206
Special packing provisions (IMDG)	: PP89
Tank instructions (IMDG)	: T50
Tank special provisions (IMDG)	: TP4, TP40
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Liquids, pastes or powders, pressurized with a propellant which meets the definition of a
	gas.
Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 218
CAO max net quantity (IATA)	: 75kg
Special provisions (IATA)	. 75кд : А1, А187
ERG code (IATA)	: 10L
Inland waterway transport	
Classification code (ADN)	: 8F
Special provisions (ADN)	274, 659
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: 8F
Special provisions (RID)	: 274, 659
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P206
Special packing provisions (RID)	: PP89
,	



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Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	:	MP9 T50 TP4, TP40
Transport category (RID)		2
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW10, CW12, CW36
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description		
naphtha (petroleum), hydrotreated light ;		Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F		
3(b)	Pandser Spraybond XF Canister ; acetone ; n- hexane ; naphtha (petroleum), hydrotreated light ; pentane	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10		
3(c)	Pandser Spraybond XF Canister ; n-hexane ; naphtha (petroleum), hydrotreated light ; pentane	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1		
40.	dimethyl ether ; acetone ; n-hexane ; naphtha (petroleum), hydrotreated light ; pentane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.		

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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VOC Directive (2004/42)

VOC content

: 446 g/l

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) **ANNEX II REPORTABLE EXPLOSIVES PRECURSORS**

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

ľ	Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
A	Acetone		67-64-1	2914 11 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Label elements. Physical and chemical properties.

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		



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Abbreviations and acronyms:			
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Gas 1A	Flammable gases, Category 1A		
Flam. Liq. 2	Flammable liquids, Category 2		
H220	Extremely flammable gas.		
H225	Highly flammable liquid and vapour.		
H280	Contains gas under pressure; may explode if heated.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H361f	Suspected of damaging fertility.		
H373	May cause damage to organs through prolonged or repeated exposure.		



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Full text of H- and EUH-statements:		
H411	Toxic to aquatic life with long lasting effects.	
H412	larmful to aquatic life with long lasting effects.	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Flam. Gas 1A	1A H220 Calculation method		
Press. Gas (Liq.)	H280	Expert judgement	
STOT SE 3	H336	Calculation method	
Aquatic Chronic 3	H412	Calculation method	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.





Berdal Rubber & Plastics BV Bedrijvenpark Twente 193

7602 KG Almelo The Netherlands +31(0)546 - 579 582

WWW.PANDSER.COM

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